

**Method and Apparatus for
Accelerating Hardware Encryption
With Multiple Networking Interfaces**

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ABSTRACT

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The invention provides for utilizing abilities of network interfaces, such as embedded encryption support, or access to such encryption support, so as to extend support for such abilities to network interfaces or other devices lacking such ability. In

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one configuration, a non-homogeneous team of network interfaces is presented to a protocol stack as being a homogeneous team, by having network interfaces lacking a particular ability be backed up by team member supporting the ability. Various methods may be applied to distribute the work load of backing up network interface according to an operation mode of the team. For example, when operating in load balancing mode, performing backup services is balanced across the team, whereas in a fault tolerant mode, processing may be first given to non-primary network interfaces.

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